IN THE CLAIMS

The following listing of the claims is provided in accordance with 37 C.F.R. 1.121:

- 1. (original) A method of producing a reduced data set event log comprising the acts of:
- (a) monitoring an event log comprising examination and series data from a digital imaging device; and
- (b) automatically copying portions of the examination and series data from the event log to produce the reduced data set event log.
- 2. (original) The method of producing a reduced data set event log, as set forth in claim 1, wherein the event log is produced from a computed tomography (CT) device.
- 3. (original) The method of producing a reduced data set event log, as set forth in claim 1, wherein the event log comprises a multi-threaded event log.
- 4. (original) The method of producing a reduced data set event log, as set forth in claim 1, wherein act (b) comprises:
 - (a) providing a feature extracter module;
 - (b) analyzing the event log using the feature extracter module; and
- (c) storing portions of the examination and series data in the reduced data set event log.
- 5. (original) The method of producing a reduced data set event log, as set forth in claim 4, wherein the feature extracter module comprises a software algorithm.

- 6. (original) The method of producing a reduced data set event log, as set forth in claim 4, wherein the feature extracter module comprises a Programmable Read Only Memory (PROM) device.
- 7. (original) The method of producing a reduced data set event log, as set forth in claim 4, wherein the feature extracter module comprises a software routine.
- 8. (original) The method of producing a reduced data set event log, as set forth in claim 4, wherein the feature extracter module comprises a state machine.
- 9. (previously presented) A method of interpreting an event log comprising the acts of:
 - (a) using a state machine to describe predetermined conditions;
- (b) switching states of the state machine in response to the detection of the predetermined conditions; and
- (c) producing a reduced data set event log based on the detection of the predetermined conditions.
- 10. (original) The method of interpreting an event log, as set forth in claim 9, comprising the acts of:

manually inspecting exemplary event logs comprising examination records and series records;

identifying a plurality of text-strings corresponding to the examination records and series records;

assigning a condition to each of the plurality of text-strings; and using each of the conditions to define a state machine.

11.-12. (canceled).

13. (previously presented) A system for interpreting an event log comprising: an input device configured to produce an event log, the event log comprising imaging data correlative to an image scan; and

a feature extracter module configured to receive the event log from the input device and further configured to produce a reduced data set event log based on the detection of the predetermined conditions.

- 14. (original) The system for interpreting an event log, as set forth in claim 13, wherein the feature extracter module comprises a software algorithm.
- 15. (original) The system for interpreting an event log, as set forth in claim 13, wherein the feature extracter module comprises a state machine.
- 16. (original) The system for interpreting an event log, as set forth in claim 13, wherein the event log comprises a multi-threaded event log.
- 17. (original) The system for interpreting an event log, as set forth in claim 13, wherein the input device comprises at least one of a computed tomography (CT) device, a magnetic resonance imaging (MRI) device, an x-ray system, and an ultrasound system.
- 18. (previously presented) A feature extractor comprising means for receiving an event log from an input device and means for producing a reduced data set event log based on the detection of predetermined conditions.

19.-23. (canceled).

24. (original) A computer-readable medium storing computer instructions for:

monitoring an event log comprising examination and series data from a digital imaging device; and

automatically copying portions of the examination and series data from the event log to produce a reduced data set event log.

25. (original) The computer-readable medium, as set forth in claim 24, wherein the computer instructions for automatically copying comprises computer examinations for:

analyzing the event log, and

storing portions of the examination and series data in the reduced data set event log.

26. (canceled).